

DATE OUT: March 5, 2019

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

SUBJECT: STORAGE STABILITY (830.6317) & CORROSION CHARACTERISTICS (830.6320) REVIEW

ACCELERATED STUDY [X]; ONE YEAR STUDY [ ];

OVER 1 YEAR STUDY []
MP[] EP[X] EUP[]

**DP BARCODE No.:** 449128 **REG. No.:** 2724-842 **DECISION No.:** 543733 **MRID No(s):** 506566-01 **PRODUCT NAME:** RF2236 CDSO-N1 FOR DOGS

**COMPANY: WELLMARK INTERNATIONAL** 

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Product Chemistry Team

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### I. CONCLUSIONS:

STORAGE STABILITY (830.6317): [X] ACCEPTABLE [ ] UNACCEPTABLE* [ ] UPGRADEABLE*	
40CFR158.190 DATA REQUIREMENT: [X] SATISFIED [ ] NOT SATISF	IED
CORROSION CHRACTERISTICS (830.6320): [X] ACCEPTABLE [ ] UNACCEPTABLE* [ ] UPGRADEABLE*	
40CFR158.190 DATA REQUIREMENT: [X] SATISFIED [ ] NOT SATISFII	ΞD

\* If unacceptable or upgradeable describe the deficiency and provide recommendations

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#### Comments & Recommendations:

One lot of RF2236 CDSO-N1 was tested for stability at elevated temperature. If was assayed initially to verify that the product was within specification. The samples were stored for two weeks at 54°C in the commercial containers in accordance with the EPA Storage Stability at Elevated Temperature procedure. Final assays were then performed to verify that no significant change in active ingredients had occurred.

The initial assay was within specification and had no significant change of active ingredient level after two weeks of elevated temperature storage. This demonstrates the product's chemical stability under the elevated temperature guidelines.

No changes in the color odor, or physical state of the product were observed, and there was no physical degradation or other evidence of corrosion to the package after two weeks of elevated temperature storage.

### **II. STUDY SUMMARY**

#### A. STUDY CONDUCTED UNDER US GLP/OECD GUIDELINES

[X] Yes [] No

#### **B. PRODUCT INFORMATION**

Active ingredient(s): ETO; PBO; MGK; Nylar Label claim(s) Nominal concentration(s) (%): 55.0; 10.0; 1.0; 0.5 Initial concentration(s) of the Al(s) (%) used in the study: 55.23; 10.12; 0.99; 0.52 Lower certified limits (%) based on Al % in the label: 53.35; 6.5; 0.9; 0.45 Lower certified limits (%) based on Al % in the study: 53.5731; 9.614; 0.891; 0468

### C. EXPERIMENTAL PARAMETERS

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Temperature: [] Freezer; Room []; Warehouse [X]; 54°C []; Other [] Humidity: Indicate 25°C / 50% (if provided)
Duration of study: [X] 2 weeks; [] 1 year; [] over 1 year
Type of container: [] Glass; [] Metal; [] HDPE; [] Fluorinated HDPE; [] Other Analysis at intervals: [X] 0 (initial);
[] 3 months; [] 6 months
[] 9 months; [] 12 months
[] Over 12 months
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## D. ANALYTICAL METHOD

Method	DETECTOR		
Gas chromatography (GC)	<ul><li>√ FID (Flame Ionization Detector)</li><li>□ ECD (Electron Capture Detector)</li></ul>		
	<ul><li>□ N/P (Nitrogen/Phosphorous</li><li>Detector)</li><li>□ Other</li></ul>		
Capillary Gas chromatography (CGC)	<ul> <li>□ FID (Flame Ionization Detector)</li> <li>□ ECD (Electron Capture Detector)</li> <li>□ N/P (Nitrogen/Phosphorous Detector)</li> <li>□ Other</li> </ul>		
High Pressure Liquid chromatography (HPLC)	<ul><li>□ UV/VIS (nm)</li><li>□ RI (Refractive Index)</li><li>□ Other</li></ul>		
GC-MS / LC-MS	Specify		
Other	Specify		

## E. RESULTS

Initial data point at warehouse storage

Lot#	w/w %	w/w %	w/w %	w/w %	Package	Physical
	ETO	PBO	MGH 264	Nylar ®	Appearance	Appearance
HN518.61	55.23	10.12	0.99	0.52	NVA	NVA

Fourteen (14) day data point at 54°C

Lot#	w/w %	w/w %	w/w %	w/w %	Package	Physical
	ETO	PBO	MGH 264	Nylar ®	Appearance	Appearance
HN518.61	54.66	10.01	0.99	0.52	NVA	NVA

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